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Mitchell, Lloyd G. Garcia-Blanco, Mariano A.

<120> METHODS AND COMPOSITIONS FOR USE IN SPLICEOSOME MEDIATED RNA TRANS-SPLICING

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<220>
<223> Oligonucleotide primers complimentary to the
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<223> Oligonucleotide primers complimentary to the beta
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<400> 33
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<400> 34
ctgactgcag ggtaaccgga caaggacact gcttcacc
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<223> Oligonucleotide primers complimentary to the beta
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<223> Oligonucleotide primers complimentary to the
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22
<210> 38
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<210> 39
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<213> Artificial Sequence
<220>
<223> Oligonucleotide primers complimentary to the
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<213> Homo sapiens
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32
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<210> 53
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<223> trans-spliced product containing Human chorionic
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      diptheriae diptheria toxin A sequence
<400> 53
gagatgttcc agggcgtgat gatg
<210> 54
<211> 125
<212> RNA
<213> Artificial Sequence
<223> PTM intramolecular base-paired stem
<221> misc feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
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<400> 54
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nnnnnnnnn aucguuaacu aauaaacuac uaacuaacug ggugaauguu uuuucucggc
120
ugcag
125
<210> 55
<211> 127
<212> RNA
<213> Artificial Sequence
<223> PTM intramolecular base-paired stem
<221> misc feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
      according to the specification
<400> 55
gcuagecugg gacaaggaca cugcuucace egguuaguag accaeagece uqaqeennnn
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gcugcag
127
<210> 56
<211> 127
<212> RNA
<213> Artificial Sequence
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<223> PTM intramolecular base-paired stem
<221> misc feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
      according to the specification
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120
gcugcag
127
<210> 57
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<212> DNA
<213> Artificial Sequence
<220>
<223> trans-spliced product containing Human chorionic
      gonadotropin gene 6 sequences and Corynebacterium
      diptheriae diptheris toxin A sequences
<400> 57
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tccattcaaa aa
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<210> 58
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<223> Artificial sequence comprising sequences derived
      from Escherichia coli lacZ gene
<400> 58
gaattcggta ccatgggg
18
<210> 59
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence comprising sequences derived
      from Escherichia coli lacZ gene and
<400> 59
cgtttacagg taagaggatc ctccggaggg ccc
33
<210> 60
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<223> Artificial sequence comprising sequences derived
      from Escherichia coli lacZ gene
<400> 60
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30
<210> 61
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> trans-spliced product containing Escherichia coli
      lacZ gene sequences and Human chorionic
      gonadotropin gene 6 exon 2 sequences
<400> 61
cagcagcccc tgtaaacggg gatac
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<210> 62
<211> 286
<212> DNA
<213> Artificial Sequence
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<223> trans-spliced product containing Escherichia coli
      lacZ gene sequences
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gtaacagtct tggcggtttc gctaaatact ggcaggcgtt tcqtcaqtat ccccqtttac
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agggcggctt cgtctaataa tgggactggg tggatcagtc gctgattaaa tatgatgaaa
acgggcaacc cgtggtcggc ttacggcggt gattttggcg atacgccqaa cqatcqccaq
ttctgtatga acggtctggt ctttgccgac cgcacgccgc atccag
286
<210> 63
<211> 196
<212> DNA
<213> Artificial Sequence
<220>
<223> trans-spliced product containing Escherichia coli
      lacZ gene sequences
<400> 63
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60
gtaacagtct tggcggtttc gctaaatact ggcaggcgtt tcgtcagtat ccccgtttac
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180
ttcggccacg gtgccg
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tgatgattat gggagaactg gagcetteag agggtaaaat taagcacagt ggaaqaattt
cattetgtte teagttttee tggattatge etggeaceat taaaqaaaat ateatetttq
geggeegeea etgtgetgga tatetgeaqa atteeaceae aetgqaetaq tqqateeqaq
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gccatctgtt gtttgcccct ccccgtgcc ttccttgacc ctggaaggtg ccactcccac
420
<210> 65
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<213> Artificial Sequence
<220>
<223> Splice junction sequence
<400> 65
atgttccagg gcgtgatgat
20
<210> 66
<211> 7
<212> PRT
<213> Artificial Sequence
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 1
<210> 67
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<223> trans spliced product comprising cystic fibrosis

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<212> DNA
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<223> Artificial Sequence comprising sequences derived
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<400> 67
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<210> 68
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<213> Artificial Sequence
<220>
<223> Artificial Sequence comprising sequences derived
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      chorionic gonadotropin gene 6 intron 1
<400> 68
gcagtgtcct tgtgcggtta ccctgcaggg cggcttc
37
<210> 69
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<223> Spacer sequences of PTM
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  <213> Artificial Sequence
  <220>
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        site of PTM
  <400> 71
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  <210> 72
  <211> 70
  <212> DNA
  <213> Artificial Sequence
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<223> Donor site and spacer sequence of PTM
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  gatccaccgg
  70
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  <223> Binding domain of spacer sequence
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  tcaaaaagtt ttcacataat ttcttacctc ttcttgaatt catgctttga tgacqcttct
  gtatctatat tcatcattgg aaacaccaat gatttttctt taatggtgcc tggcataatc
  120
  ctggaaaact gataacacaa tgaaattctt ccactgtgct taaaaaaacc ctcttgaatt
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<213> Oligonucleotide Artificial Sequence
<220>
<223> Oligonucleotide primer
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actcagtgtg attccacctt ctc
23
<210> 76
<211> 36
<212> DNA
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<223> Oligonucleotide
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gacctctgca gacttcactt ctaatgatga ttatgg
36
<210> 77
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<212> DNA
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<220>
<223> Oligonucleotide primer
<400> 77
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<210> 78
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<220>
<223> Oligonucleotide primer
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ctagggttac cgaagtaaaa ccatacttat tag
<210> 79
<211> 35
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<213> Artificial Sequence
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<400> 79
gcatggttac cctgcagggg ctgctgctgt tgctg
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<220>
<223> Oligonucleotide primer
<400> 80
ctgaaagctt gttaaccagc tcaccatggt ggggcag
37
<210> 81
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Binding domain of PTM molecule
<400> 81
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acccatcatt attaggtcat tat
23
<210> 82
<211> 22
<212> DNA
<213> Artificial Sequence
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gatcaaatct gtcgatcctt cc
22
<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Oligonucleotide primer
<400> 83
ctgatccacc cagtcccatt a
21
<210> 84
<211> 22
<212> DNA
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gactgatcca cccagtccca ga
22
<210> 85
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      site
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52
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<223> Oligonucleotide
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tatgatgaaa a
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<223> Oligonucleotide
<400> 87
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acgccg
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<223> PTM sequences
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60
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aacataatct tcggcgtcag ttacgacgag taccgctatc gctcggtgat taaggcctgt
cagttggagg ag
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gagcaggcaa gacgagcttg ctcat
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<223> Oligonucleotide
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gtcagttgga ggaggacatc tccaagtttg
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<210> 92
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<212> DNA
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<220>
<223> PTM sequences
<400> 92
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tccggccgca tcagcttttg cagccaattc agttggatca tgcccggtac catcaaggag
120
aacataatct tcggcgtcag ttacgacgag taccgctatc gctcggtgat taaggcctgt
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cagttggagg ag
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<400> 93
aaatatcatt ggtgtttctt atgatga
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<210> 94
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ccaactagaa gaggacatct ccaagtttgc
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<210> 95
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<212> DNA
<213> Artificial Sequence
<220>
<223> Oligonucleotide
<400> 95
atgatcatgg gcgagttaga accaagtgag
30
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